

M07: TDAR SRBC: Spleen AFC

Study Number: I07062

DTTID: 108-006-005-000-0

Study Type: Immune screening

Species/Strain: Rat/Sprague Dawley

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

CAS Number: L-MWNT-1020

DTXSID: DTXSID601356181

Date: 29 Aug 2024

Time: 3:02:53 PM

Females: SRBC

	Treatment Groups				
	0 mg/m ³	0.06 mg/m ³	0.2 mg/m ³	0.6 mg/m ³	15 mg/kg CPS
Spleen Weight (g)	0.614 ± 0.023[12]	0.571 ± 0.017[12]	0.519 ± 0.041[12]	0.632 ± 0.063[12]	0.348 ± 0.011[10]**
Spleen Cells (x10 ⁶)	393.10 ± 11.64[12]	386.75 ± 27.76[12]	431.25 ± 20.88[12]	422.10 ± 20.62[12]	109.44 ± 6.55[10]**
AFC/10 ⁶ Spleen Cells	1485.7 ± 208.1[12]	1057.2 ± 135.0[12]	786.1 ± 109.3[12]*	1182.2 ± 158.9[12]	655.6 ± 75.6[10]**
AFC/Spleen (x10 ²)	6000.0 ± 960.0[12]	4103.8 ± 565.5[12]	3481.3 ± 527.0[12]	5026.3 ± 748.2[12]	681.0 ± 54.8[10]**

M07: TDAR SRBC: Spleen AFC

Study Number: I07062

DTTID: 108-006-005-000-0

Study Type: Immune screening

Species/Strain: Rat/Sprague Dawley

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

CAS Number: L-MWNT-1020

DTXSID: DTXSID601356181

Date: 29 Aug 2024

Time: 3:02:53 PM

LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Statistical analysis was performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints. The positive control group (15 mg/kg CPS) was excluded from the trend test.

Statistical analysis for the positive control group (15 mg/kg CPS) compared to the vehicle control group was performed using a t-test for organ weights and a Wilcoxon rank sum test for all other endpoints.

Statistical significance for the control group indicates a significant trend test.

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

TDAR = T-Dependent Antibody Response; SRBC = Sheep Red Blood Cells; AFC = Antibody-Forming Cells

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 43.

**** END OF REPORT ****